

Make Something Delicious with micro:computers

Micro:bit

Micro:bit Foundation Resources

Resource	Description
Meet micro:bit	A getting started guide that will tell you a little bit about the device
Let's Code	Learn how to code the micro:bit
Ideas	Projects, ideas, and testimonials to help you get inspired
Teach	Lesson Plans and Curriculum

Places to Code micro:bit

Resource	Description
Tynker	• Code in both block and micro:python • Can go wireless in block • Courses to go with both
Make Code	• Microsoft product

	• Has many lesson ideas
Scratch	• Have to create the project for it

Project Ideas

Resource	Description
Instructables	• A site for making anything • Has several micro:bit projects
Make Code	• Has multiple project ideas
Tynker	• Has free projects in both Tynker Blocks and Python
Pinterst	• Lots of project ideas on Pinterest boards

Raspberry Pi

To Learn the Basics About Raspberry Pi

Visit the Raspberry Pi Basics Slide Deck

To Try Out Scratch Coding

Go to scratch.mit.edu and hit create on the top of the page

To Try Out Python Coding

Start by going to the Sense Hat Emulator which can be found https://trinket.io/sense-hat • Because we don't have a Raspberry Pi for everyone, this is a SenseHat emulator that will give you practice with Python Code. It works just like the Raspberry Pi Sense Hat
Use the Sense Hat cheat sheet which can be found HERE • Try to code the challenges found in this doc on the Sense Hat

To Explore Other Avenues with Raspberry Pi

Workshop Presentation Detailing Breadboards and the Camera
Workshop Presentation on the Explorer Hat
Sonic Pie How To
Getting Started with Raspberry Pi

Project Ideas

Raspberry Pi Resource Page
Code Club Project Play
Instructables Raspberry Pi Projects
Hackster Raspberry Pi Projects
Hackaday Raspberry Pi oProjects

How to Build a RetroPie

Some Examples of Cross Curricular Projects

Calculus	• A calculus teacher had their kids design a shape using the Pi Wolfram Mathematica that was later 3D printed and turned into a working speaker. The volume and shape of the speaker box was an application for Calculus
Chemistry	• Students build a computer that takes slow motion video in order to capture chemical reaction in the moment
Environmental Science	• A high altitude balloon project which can be found at THIS LINK
Physics, Chemistry, and Biology	• There are several science specific lessons built around the Raspberry PI sensors which can be found HERE
Literature	• Students build book based video games using Raspberry Pi. You can find a blog about the project HERE